

STANFORD UNIVERSITY MEDICAL CENTER

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STANFORD UNIVERSITY SCHOOL OF MEDICINE Department of Genetics

Professor Joshua Lederberg

Dr. J. H. Wiggins

Jr. H. Wiggins Co.

P. O. Box 192

Palos Verdes Estates, Calif. 90274

Dear Dr. Wiggins:

I would be grateful to you for further information on:

The me of your paper

Did you really compare overpressure centrosphie presoure in the way? or is that a reporters misconstruction?

De you have any cuticit published date on This point?

Should we have a concerted program of periodie somie etus. Have you calculated cost-effectiones

Thank you
Joshua Lederberg

My interest in this material relates in part to background for a weekly column on "Science and Man" which appears weekly in the Washington POST.

Sunday, April 27, 1969 E16

THE WASHINGTON POST

Mild Sonic Booms Seen Aiding Home

By George Getze Los Angeles Times

sonic booms once in a while foot—that is, about 120 pounds are good for houses, according 'over-pressure.' " to a geophysicist who has made a study of them.

J. H. Wiggins Jr., who was that of the atmosphere. the director of Governmentsponsored sonic boom tests at under a normal pressure of White Sands, N.M., in 1964 and 2116 pounds per square foot. the Institute of Environmental recorded added 120 pounds Sciences that repeated sonic pressure to that, according to booms had actually lowered the rate at which structural defects show up in houses and other buildings.

He said he didn't know why, but that the most plausible theory is that the shaking a house receives in a sonic boom relieves accumulating stress.

Ordinarily, the stress shows up periodically during the lifetime of the house.

"The booms slow down deterioration and aging of houses," Wiggins said.

He emphasized that the kind of sonic booms that apparently have a beneficial effect are "low level" ones of about a pound or so pressure persquare foot.

Wiggins has spent five years studying sonic booms and besides being technical director of the White Sands' tests, was analyst for the Federal Aviation Administration of the Oklahoma City tests in 1964.

The Oklahoma City booms had an average pressure per square foot of 1.2 pounds, with the strongest boom of 2 pounds pressure. The White Sands tests were stronger.

"The effects of sonic booms have been grossly exaggerated," Wiggins said. "The greatest boom ever recorded

ANAHEIM, Calif.-Mild was 120 pounds per square

By "over-pressure," Wiggins means the pressure added to

1965, told a recent meeting of The greatest sonic boom ever Wiggins.

"That's not much and certainly nothing horrendous," he

"Even so, you hear stories about sonic booms knocking down buildings, and I've even seen plays on TV in which sonic booms are supposed to have been strong enough to knock down whole cities. Sonic booms could never do anything like that."